

Proposed 2005 Vermont Guidelines for Energy Efficient Commercial Construction

List of Proposed Changes to IECC 2004 Supplement - June 10, 2005

<u>Number</u>	<u>Section</u>	<u>Summary/Rationale</u>
1	101.1	Names document; Maintains consistency with 2001 VT Guidelines
2	101.2	Delete references to residential buildings, and IBC for existing buildings; which VT Guidelines do not apply
3	101.4.3	Adds exception for vestibules/revolving doors for existing doors; Maintains consistency with 2001 VT Guidelines
4	101.4.5	Delete references to residential buildings, which VT Guidelines do not apply
5	101.5	Delete references to residential buildings, which VT Guidelines do not apply
6	101.5.2	Defines scope for Greenhouses and Barns; Maintains consistency with 2001 VT Guidelines
7	101.5.3	Limits scope for Industrial Processes; Maintains consistency with 2001 VT Guidelines
8	102.1.1	Customizes marking information for spray products in contrast to blown products
9	Table 102.1.3(3)	Increases default SHGC values by 0.1
10	102.2	Delete references to IBC for existing buildings; which VT Guidelines do not apply
11	103.1.1	Deletes "above code" program compliance
12	202	Tightens up definition of "Approved"
13	202	Adds definition of "Equipment"; Maintains consistency with 2001 VT Guidelines
14	202	Clarifies that "Exterior Walls" are sloped at least 60 degrees
15	202	Adds definition of "Greenhouse"; Maintains consistency with 2001 VT Guidelines
16	301.1	Specifies single climate zone for VT
17	301.2, 301.3, 301.3.1	Deletes climate zones not relevant to VT
18	Figure 301.1, Table 301.1, 301.3(1), 301.3(2)	Deletes climate data not relevant to VT
19	302.1	Changes cooling design setpoint to 75F; Makes equivalent to ASHRAE Fundamentals and ACCA Manual J

20	302.2	Adds climate data for VT; Makes equivalent to ASHRAE/IESNA 90.1-2004; Maintains consistency with 2001 VT Guidelines
21	Chapters 4, 5, 6, and 7	Delete chapter 4,5 and 6 on residential buildings not relevant to VT Guidelines
22	801.1	specifies version of ASHRAE/IESNA Standard 90.1 to use; and application of Energy Cost Budget Method based on % fenestration
23	801.2	Allows use of Chapter 8 or ASHRAE for different components
24	801.2.1	Replaces ASHRAE envelope with VT-specific requirements; Establishes the same envelope requirements for both Chapter 8 and ASHRAE/IESNA 90.1-2004
25	801.2.1	Adds Transformer requirements to ASHRAE; Makes equivalent to IECC; Maintains consistency with 2001 VT Guidelines
26	801.2.1	Clarifies ECB method; Maintains consistency with 2001 VT Guidelines
27	802.1	Clarifies allowable prescriptive Window to Wall Ratio is 40% (not 50%)
28	802.1	Requires ASHRAE ECB method for >40% fenestration; Maintains consistency with 2001 VT Guidelines
29	802.1.2	Deletes references to climate zones not relevant to VT
30	802.2	Specifies version of ASHRAE/IESNA Standard 90.1 to use
31	Table 802.2(1)	Establishes single package of envelope requirements for =40% fenestration; CBES working group consensus on cost-effective envelope requirements for VT, based on 2004 IECC and 2004 ASHRAE/IESNA Standard 90.1
32	Table 802.2(2)	Modifies glazing descriptors; creates new curtainwall/storefront, entrance door, and all other categories for metal framing
33	Table 802.2.3	Amends values to be consistent with VT envelope requirements; Maintains consistency with 2001 VT Guidelines
34	802.2.4	Bans installation of insulation on dropped ceilings
35	802.3.6	Deletes references to climate zones not relevant to VT
36	803.1.2	Adds Electric Resistance Space Heating restriction; Maintains consistency with 2001 VT Guidelines
37	803.2.6	Adds a requirement for means of relieving excess air during economizer operation to match ASHRAE Standard 90.1-2004
38	Table 803.2.2.(1), 803.2.2.(2)	Updates small HVAC equipment requirements to meet federal standards; Makes equivalent to ASHRAE/IESNA 90.1-2004

39	803.2.6	Maintains economizer requirements; Maintains consistency with 2001 VT Guidelines and ASHRAE/IESNA 90.1-2004
40	803.2.6.1	Deletes economizer requirements not relevant to VT
41	803.2.6.2	Deletes economizer requirements not relevant to VT
42	803.2.8	Eliminates the use of unlisted duct tape on any ducts
43	803.3.3.4	Shutoff Damper Controls
44	803.3.3.6	Requires VAV fan control fan control on systems 10 hp or greater; Makes IECC inconsistent with ASHRAE/IESNA 90.1-2004
45	803.3.3.7.3	Updates climate zones and table callouts; deletes climate zones not relevant to VT
46	803.3.3.10	Deletes climate zones not relevant to VT
47	804.1.1	Limits electric water heating; Maintains consistency with 2001 VT Guidelines
48	804.2	Adds requirements for heat pump pool heaters
49	804.2	Revises the water heating equipment table and adds new DOE water heating numbers
50	805.1	Specifies exceptions for outdoor lighting; Maintains consistency with 2001 VT Guidelines
51	805.2.2	Removes exceptions for additional lighting controls and adds some requirements for automatic lighting shutoff
52	805.2.2.2	Adds some exceptions for automatic lighting shutoff to bring the requirements into alignment with ASHRAE Standard 90.1-2004
53	805.2.4, 805.6, 805.6.1, Table 805.6.2	Adds requirements for exterior lighting controls and exterior lighting power requirements to bring the IECC into alignment with ASHRAE Standard 90.1-2004
54	805.5.2, 805.5.2.1	Collapses the entire building and tenant area methods of lighting compliance into a single version
55	805.6.1	Specifies Act 250 exterior lighting review; Maintains consistency with 2001 VT Guidelines
56	806.1	Lists motor efficiencies; Maintains consistency with 2001 VT Guidelines
57	806.2	Specifies electric power distribution requirements; Maintains consistency with 2001 VT Guidelines

58	806.3	Specifies Dry-Type and Liquid-Filled Transformer requirements, basis is NEMA TP-1 2002 Standard; Maintains consistency with 2001 VT Guidelines by including dry-type requirements, and adds new requirements for liquid-filled transformers
59	Chapter 10	Updates reference standards